



MARKED-UP COPY OF THE AMENDED CLAIMS

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1. A display device comprising a viewing window [(18)] or a screen, a housing
[(24)] filled with a plurality of silicone compounds, and means [(12, 14)] for producing an
5 image on the screen, [the device being characterized in that the housing is completely
filled with silicone (20, 22)].

2. A display device comprising a viewing window or a screen, a housing, an
optical portion filled with a silicone in semi-liquid or elastomer or gel form and an
electronic portion filled with a liquid silicone.

10 3 [2]. A device according to claim 1 or 2, in which the screen or the window is
disposed between a front bezel [(34)] and the housing [(24)], with at least one gasket
[(36, 38)] being disposed between the bezel and the housing.

4 [3]. A device according to claim 1 or 2, in which the silicone situated behind the
window or the screen presents a refractive index that is identical or close to that of the
15 material constituting [the] said screen or [the] said window.

5 [4]. A device according to [any one of] claim 1 or 2 [3], in which the silicone
situated behind said [the] screen or said [the] window is transparent in the visible range
of the spectrum.

20 6 [5]. A device according to claim 1 or 2 [4], in which the silicone situated
immediately behind the screen or the window is a semi-liquid or gel or elastomer
silicone.

[6. A device according to claim 1, in which the housing is filled with a plurality of
silicone compounds].

25 [7. A device according to claim 1, having an optical portion filled with a silicone in
semi-liquid or elastomer or gel form, and an electronics portion filled with a liquid
silicone.]

7 [8]. A lighting device comprising a screen or a window [(54), a housing (50),
and means (52, 56) for producing] electromagnetic radiation producing means, [the

device being characterized in that the] a housing [is completely] filled with silicone [(60)], said silicone withstanding high temperatures.

8. A lighting device as in claim 7, said silicone withstanding temperatures up to + 260°C.

5 9. A device according to claim 7 or 8, in which the silicone is liquid.

10 10. A camera comprising a viewing window [(74)], a housing [(72)] filled with a plurality of silicones, and [means (70) for] a radiation receiver for [receiving] radiation coming from outside the housing and passing through the window. [the camera being characterized in that the housing is completely filled with silicone (88)].

11. A camera according to claim 10, further comprising one or more controlling motors [(76, 78, 80) for] controlling [elements for adjusting the] camera adjustment.

12. A camera according to claim 10 or 11, in which [the] one silicone is liquid or semi-liquid.

15 13. An optical device comprising a window [(54, 74)] or a viewing screen [(18)], a housing [(24, 50, 72)] filled with a plurality of silicones, an optical component[s] [(16, 52, 70)] receiving radiation which penetrates into the housing by passing through the window or the screen, or producing and emitting radiation which leaves the housing by passing through the window or the screen, [the device being characterized in that the housing is completely filled with silicone (20, 22, 60, 88)].

20 14. A device according to claim 13, in which the silicone situated behind the window or the screen presents a refractive index that is identical or close to that of the material constituting the window or the screen.

15. A device according to claim 13 or 14, in which the silicone situated behind the window or the screen is transparent in the visible range of the spectrum.

25 16. A device according to claim 13 or 14, in which the silicone situated immediately behind the window or the screen is a semi-liquid or gel or elastomer silicone.

[17. A device according to claim 16, in which the housing is filled with a plurality of silicone compounds.]

17 [18]. A device according to claim 13 or 14, comprising an optical portion filled with a silicone in semi-liquid or elastomer or gel form, and an electronics portion filled
5 with a liquid silicone.

18 [19]. A method of filming a scene in which a camera is used according to claim [12] 10.

19 [20]. A method of filming according to claim 18 [19], in which a display device according to claim 1 or 2 [8] is [used] connected to the camera and enabl[ing]es the
10 scene seen by the camera to be viewed.

20 [21]. A method of filming according to claim 18 or 19 [20] in which the scene is lighted by [means of] a lighting device according to claim 7 [8].

21 [22]. A method according to claim 18 [19 or 21], in which filming takes place in an underwater environment.

15 22 [23]. A method of filming according to claim 21 [22], in which filming takes place at a depth of more than 100 meters below the surface of the water.

23. A method of filming according to claim 18, in which filming takes place in a non-pressurized medium.

20 24. A method [according to claim 19 or 21, in which] of filming [takes place] in a non-pressurized medium, in which a camera is used, comprising a viewing window, a housing filled with silicone and a radiation receiver receiving radiation coming from outside the housing and passing through the window.

25. A method according to claim 23 [24], in which filming takes place in the stratosphere or beyond.

25 26. A method according to claim 24 or 25, in which a display device is connected to the camera and enables the scene seen by the camera to be viewed, said display device comprising a viewing window or a screen, a housing filled with silicone, and image producing means.

27. A method according to claim 24 or 25, in which the scene is lighted by a lighting device comprising a window, a housing filled with silicone and electromagnetic radiation producing means.

5 28 [26]. A method of making an optical component comprising a window [(54, 74)] or a viewing screen [(18)], a housing [(24, 50, 72)], and optical components (16, 52, 70), the method comprising:

- evacuating the inside of the housing by pumping; and
- injecting at least two [one] silicone compounds into the housing.

10 29 [27]. A method of maintaining an optical device comprising a viewing screen or a window, a housing filled with a plurality of silicone compounds, one of them being a liquid silicone, and optical components, [made according to claim 26,] the method comprising:

- a step of draining [the] said liquid silicone compound
- a maintenance or repair step;
- 15 - a step of evacuating the inside of the housing by pumping; and
- a step of injecting at least one silicone compound into the housing.

30 [28]. A method according to claim 28 or 29 [26 or 27], further comprising [a pumping step for] degassing the silicone after it has been injected.

20 [30. A method according to claim 26 or 27 comprising injecting a plurality of silicone compounds into the housing.]

31 [29]. A method according to claim 28 or 29 [26 or 27], further comprising [a step of] polymerizing the silicone after it has been injected.

32. A method of making an optical component comprising a window or a viewing screen, a housing, and optical components, the method comprising:

- 25 - evacuating the inside of the housing by pumping;

- injecting at least one silicone compound into the housing
- polymerizing said silicone after it has been injected.

33. A display device comprising a viewing window or a screen, a housing filled with a plurality of silicone compounds, and signal processing cards.

5 34. A device according to claim 32, in which the silicone situated behind the screen presents a refractive index that is identical or close to that of the material constituting the screen or the window.

35. A device according to claim 34, in which the silicone situated behind the screen or the window is transparent in the visible range of the spectrum.

10 36. A device according to claim 35, in which the silicone situated immediately behind the screen or the window is a semi-liquid or gel or elastomer silicone.

37. A device according to claim 36, having an optical portion filled with a silicone in semi-liquid or elastomer or gel form, and an electronics portion filled with a liquid silicone.

15 38. A method of displaying an image in a non-pressurized medium, comprising displaying said image on a display device comprising a viewing window or a screen, a housing filled with silicone and image producing means producing an image on said screen.

20 39. A method of displaying an image in a non-pressurized medium, comprising displaying said image on a display device comprising a viewing window or a screen, a housing filled with silicone and signal processing cards.

40. A method as in claims 38 or 39, taking place in the stratosphere or beyond.

25 41. A method of lighting in a non-pressurized medium, comprising lighting with a lighting device having a screen or a window, a housing filled with silicone, and means for producing electromagnetic radiation.

42. A method as in claim 41, taking place in the stratosphere or beyond.

43. A camera comprising a viewing window, a housing filled with liquid or semi-liquid silicone, a radiation receiver for radiation coming from outside the housing and passing through the window, one or more motors controlling camera adjustment.

REMARKS

I. The amended Claims

Amended Claim 1 is limited to a plurality of silicone compounds (initial claim 6).

New claim 2 corresponds to the combination of original Claims 1 and 7.

Amended Claim 7 corresponds to initial Claim 8 with the further limitation of the silicone withstanding a high temperature (see application, p. 7, lines 23-24), Claim 8 specifying temperatures up to +260 degrees C (page 7, line 24).

Amended Claims 10 and 13 are also limited to a plurality of silicones.

In amended Claim 24, the reference to Claim 19 or 21 is deleted, and is replaced by the definition of the camera itself.

New Claim 2 corresponds to the combination of final Claims 26 and 29.

New claim 33 corresponds to initial Claim 1, with signal processing cards instead of "means for producing an image" (see page 6, lines 26-27).

New Claims 38-42 are based on page 5, lines 27-33, and page 11, lines 1-20 of the application.

Claim 43 is based on initial Claims 10-12.

Deletion of the expression "completely" in Claim 1, 7 (former Claim 8), 10, 13 is based on page 6, lines 33-36, page 8, lines 11-12, page 4, lines 1-5.

II. Patentability of the amended Claims

Claims 1, 10, 13, 25 (former Claim 26), 27 and new Claims 2 31, contain the limitation of "two silicone compounds" which the Examiner appears to have acknowledged to be patentable improvement (Office action, paragraphs 13 and 14).

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Claim 7 specifies a silicone withstanding high temperatures, which none of the cited documents suggests. Neither does any cited document suggest a method of filming in a non-pressurized medium (Claim 33 and Claims 36-40).

According to the present invention, page 5, lines 26-33 and page 11, lines 1-16, specific problems are addressed in a non-pressurized medium, silicone protecting components of the device against depressurization, vibrations and also insulating them electrically. Such problems and their solutions are nowhere suggested in the art.

Concerning Claim 43, it claims the use of a liquid or semi-liquid silicone, whereas Nehemiah only discloses the use of a gel (column 3, line 49).

The polymerization step of new Claim 32 is neither disclosed nor suggested in any of the cited documents.


III. Lack of Clarity Objections

Claims 13, 19 (former Claim 20) and 22 (former Claim 23) are amended so as to overcome objections raised under Section 1(c)-(e) and 4 of the Office Action.

IV. Conclusion

Review and reconsideration of the application in view of the accompanying amendments and remarks is respectfully requested. The Claims as now amended are believed to be in condition for immediate allowance, and such action is earnestly solicited. The Examiner is invited to contact the undersigned by telephone regarding any issues which may be found remaining in the application, thereby to expedite prosecution of the application.

Respectfully submitted,


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